

**Notice of Allowability**

Application No.

09/925,769

Examiner

Andy S. Rao

Applicant(s)

KARCZEWICZ ET AL.

Art Unit

2613

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on 10/4/2004.
2. ☒ The allowed claim(s) is/are 6-9, 13-18 and 25-27.
3. ☒ The drawings filed on 8/9/2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
- ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
- ☐ Examiner's Amendment/Comment
- ☒ Examiner's Statement of Reasons for Allowance
- ☐ Other \_\_\_\_\_

ANDY RAO  
PRIMARY EXAMINER

*Allowable Subject Matter*

1. Claims 6-9, 13-18, and 25-27 are allowed.

Independent claims 6 and 25 recite a decoder for decoding encoded data including “...means for calculating a plurality of quantized reconstruction coefficients  $I_{sub-rec}$  for said current block of data, wherein  $I_{sub-rec} = (c_{sub-pred} \cdot times - A(QP1) + sub.err \cdot times.F(QP1, QP2) + f \cdot times.2^{sup.20}) / 2^{sup.20}$  where  $F(QP1, QP2) = (2^{sup.20} \cdot times.A(QP1) + Q.5 \cdot times.A(QP2)) / A(QP2)$ ...” which is a feature that is not anticipated nor obvious over the art of record. Independent claim 13 recites a decoding method for decoding encoded data including “...calculating a plurality of quantized reconstruction coefficients  $I_{sub-rec}$  for said current block of data using  $I_{sub-rec} = (c_{sub-pred} \cdot times - A(QP1) + I_{sub.err} \cdot times.F(QP1, QP2) + f \cdot times.2^{sup.20}) / 2^{sup.20}$ , wherein  $F(QP1, QP2) = (2^{sup.20} \cdot times.A(QP1) + 0.5 \cdot times.A(QP2)) / A(QP2)$ ...” which is a feature that is not anticipated nor obvious over the art of record. Independent claim 14 recites a decoding method for decoding encoded data including “...coefficients  $c_{sub-pred}$  from said predicted block; calculating reconstruction image coefficients  $c_{sub-rec}$  wherein  $c_{sub-rec} = c_{sub-pred} + \alpha(QP2) \cdot times.I_{sub.err}$ , wherein  $\alpha(QP2)$  is a quantization parameter dependent on the method of quantization and used QP value...” which is a feature that is not anticipated nor obvious over the art of record. Independent claim 17 recites a decoder for decoding encoded data including “...means for calculating a plurality of transform coefficients  $c_{sub-pred}$  for said predicted block; means for quantizing said predicted block coefficients using quantization parameter  $QP=QP1$  creating a plurality of quantized prediction image coefficients;  $I_{sub-pred}$  means for calculating the prediction error coefficients using  $c_{sub.err} = c_{sub.orig} - I_{sub-pred} \cdot times.\alpha(QP1)$  wherein  $\alpha(QP1) =$

Art Unit: 2613

$(2 \cdot \text{sup.20} + 0.5 \cdot \text{times.A(QP1)}) / \text{A(QP1)} \dots$ ” which is feature that is not anticipated nor obvious over the art of record. Independent claim 18 recites a decoding method for decoding encoded data including “...quantizing said predicted block coefficients using quantization parameter  $\text{QP}=\text{QP1}$  creating a plurality of quantized prediction image coefficients  $\text{I.sub.pred}$ ; calculating the prediction error coefficients using:  $\text{c.sub.err} = \text{c.sub.orig} - \text{I.sub.pred} \cdot \text{times-alpha(QP1)}$ ; wherein  $\text{alpha(QP1)} = (220 + 0.5 \cdot \text{times.A(QP1)}) / \text{A(QP1)} \dots$ ” which is a feature that is not anticipated nor obvious over the art of record. Dependent claims 7-9, 15-16, and 26-27 are allowed for the reasons concerning the independent claims.

### *Conclusion*

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andy S. Rao whose telephone number is (703)-305-4813. The examiner can normally be reached on Monday-Friday 8 hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris S. Kelley can be reached on (703)-305-4856. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 09/925,769

Page 4

Art Unit: 2613

Andy S. Rao  
Primary Examiner  
Art Unit 2613

asr

February 28, 2005

ANDY RAO  
PRIMARY EXAMINER

A handwritten signature in black ink, appearing to be 'ASR', is written over the printed name and title.